

APPLICATION FOR UNITED STATES PATENT  
DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: COATING MATERIAL, CERAMIC HONEYCOMB STRUCTURE AND METHOD FOR PRODUCTION THEREOF

described and claimed in the specification:

## Check one

- \*a. ☐ attached hereto.  
 b. ☐ filed on \_\_\_\_\_ as Application No. \_\_\_\_\_ and amended on \_\_\_\_\_ (if applicable).  
 c. ☒ described and claimed in PCT International Application No. PCT/JP03/16714 filed on Dec. 25, 2003 and as amended under PCT Article 19 on \_\_\_\_\_ (if any).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

Under Title 35, U.S. Code §119, the priority benefits of the following foreign application(s) and/or United States provisional application(s) filed by me or my legal representatives or assigns within one year prior to this application are hereby claimed:

Japanese Patent Application No. 2003-002775 filed on January 9, 2003 and  
 Japanese Patent Application No. 2003-421079 filed on December 18, 2003.

The following application(s) for patent or inventor's certificate on this invention were filed in countries foreign to the United States of America either (a) more than one year prior to this application, or (b) before the filing date of the above-named foreign priority application(s) and/or United States provisional application(s):

I hereby appoint the following as my attorneys of record with full power of substitution and revocation to prosecute this application and to transact all business in the Patent Office:

James A. Oliff, Reg. No. 27,075; William P. Berridge, Reg. No. 30,024;  
 Kirk M. Hudson, Reg. No. 27,562; Thomas J. Pardini, Reg. No. 30,411;  
 Edward P. Walker, Reg. No. 31,450; Robert A. Miller, Reg. No. 32,771;  
 Mario A. Costantino, Reg. No. 33,565; Stephen J. Roe, Reg. No. 34,463;  
 Joel S. Armstrong, Reg. No. 36,430; Christopher W. Brown, Reg. No. 38,025;  
 Richard E. Rice, Reg. No. 31,560; and Paul Tsou, Reg. No. 37,956.

ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, P.O. BOX 19928, ALEXANDRIA, VIRGINIA 22320, TELEPHONE (703) 836-6400.

I hereby declare that I have reviewed and understand the contents of this Declaration, and that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

1 *Typewritten Full Name  
of First or Sole Inventor*

Sadaaki

HIRAI

Given Name

Middle Initial

Family Name

2 **\*\*Inventor's Signature:**

Sadaaki Hirai

3 **\*\*Date of Signature:**

May

30th,

2005

Month

Day

Year

Residence:

Nagoya-city,

Aichi-prefecture,

Japan

City

State or Province

Country

Citizenship:

Japanese

Post Office Address:

(Insert complete

c/o NGK Insulators, Ltd.,

mailing address,

2-56, Suda-cho, Mizuho-ku, Nagoya-city,

including country)

Aichi-prefecture, 467-8530 Japan

\*If Box (a.) is checked, this form may be executed only when attached to the specification (including claims).

\*\*Note to Inventor: Please sign name exactly as it appears above and insert actual date of signing.

IF THERE IS MORE THAN ONE INVENTOR USE PAGE 2 AND PLACE AN "X" HERE ☒

PAGE 2 OF U.S.A. DECLARATION FORM  
(Discard this page in a sole inventor application)

05/00701 110  
WA-08794500

1 **Typewritten Full Name**  
**of Second Joint Inventor (if any)** Yoshihiro SHIROKI  
Given Name Middle Initial Family Name  
2 **\*\*Inventor's Signature:** Yoshihiro Shiroki  
3 **\*\*Date of Signature:** May 16th, 2005  
Month Day Year  
Residence: Katori-gun, Chiba-prefecture, Japan  
City State or Province Country  
Citizenship: Japanese  
Post Office Address:  
(Insert complete  
mailing address,  
including country) c/o ITM Co., Ltd.,  
20-8, Takeda, Kozaki-machi, Katori-gun,  
Chiba-prefecture, 289-0212 Japan

1 **Typewritten Full Name**  
**of Third Joint Inventor (if any)** Mikiya FUJII  
Given Name Middle Initial Family Name  
2 **\*\*Inventor's Signature:** Mikiya Fujii  
3 **\*\*Date of Signature:** May 16th, 2005  
Month Day Year  
Residence: Narita-city, Chiba-prefecture, Japan  
City State or Province Country  
Citizenship: Japanese  
Post Office Address:  
(Insert complete  
mailing address,  
including country) c/o ITM Co., Ltd.,  
20-8, Takeda, Kozaki-machi, Katori-gun,  
Chiba-prefecture, 289-0212 Japan

1 **Typewritten Full Name**  
**of Fourth Joint Inventor (if any)**  
Given Name Middle Initial Family Name  
2 **\*\*Inventor's Signature:**  
3 **\*\*Date of Signature:**  
Month Day Year  
Residence:  
City State or Province Country  
Citizenship:  
Post Office Address:  
(Insert complete  
mailing address,  
including country)

1 **Typewritten Full Name**  
**of Fifth Joint Inventor (if any)**  
Given Name Middle Initial Family Name  
2 **\*\*Inventor's Signature:**  
3 **\*\*Date of Signature:**  
Month Day Year  
Residence:  
City State or Province Country  
Citizenship:  
Post Office Address:  
(Insert complete  
mailing address,  
including country)

Note to Inventors: Please sign name exactly as it appears and insert the actual date of signing.

This form may be executed only when attached to the first page of the Declaration and Power of Attorney form of the application to which it pertains.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Sadaaki HIRAI et al.

Application No.: New U.S. National Stage of PCT/JP03/16714

Filed: June 29, 2005

Docket No.: 124507

For: COATING MATERIAL, CERAMIC HONEYCOMB STRUCTURE AND METHOD FOR PRODUCTION THEREOF

**TRANSMITTAL OF POWER OF ATTORNEY AND  
STATEMENT UNDER 37 CFR § 3.73(b)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith is a Power of Attorney from the Assignee.

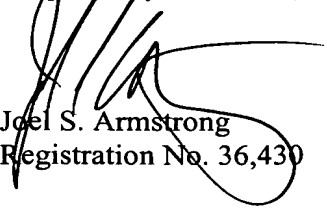
In compliance with 37 CFR §3.73(b), the undersigned hereby states that NGK INSULATORS, LTD. is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventors of the patent application identified above. A copy of the assignment is attached hereto.

The undersigned is authorized to act on behalf of the assignee.

In accordance with 37 CFR §1.36(a), submission of this Power of Attorney revokes any powers of attorney previously given.

**ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD  
BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. 25944, TELEPHONE  
(703) 836-6400.**

Respectfully submitted,

  
Joel S. Armstrong  
Registration No. 36,430

JSA/nxy

Date: June 29, 2005

EXHIBIT A

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**GENERAL POWER OF ATTORNEY  
TO PROSECUTE APPLICATIONS BEFORE  
THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Assignee Name and Address: NGK Insulators, Ltd.  
2-56, Suda-cho, Mizuho-ku, Nagoya-city  
Aichi-prefecture, 467-8530 Japan

appoints the patent practitioners associated with Oliff & Berridge, PLC Customer  
Number 25944 to represent it before the United States Patent and Trademark Office in  
connection with any and all U.S. patent applications assigned to the above-named assignee.

The undersigned is authorized to act on behalf of the assignee.

**ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD  
BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. 25944, TELEPHONE  
(703) 836-6400.**

October 28, 2004  
Date

Takafumi Hochi  
Signature

Typed Name: Takafumi Hochi

Title: General Manager, Legal Affairs &  
Intellectual Property Department